: 412 X-TUBE INST, LOW NARROW AFT

Date:

Thursday, 5/3/2007 11:36:43 AM

User:

Kim Johnston

Process Sheet

1 Garage

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 32188

Estimate Number

: 12817

P.O. Number

: P/A

This Issue Prsht Rev.

: 5/3/2007

: 32186

S.O. No. : N/A

: LANDING GEAR

Part Number

Drawing Name

: D412664205

Drawing Number

: D412-664 UNDER REV

Project Number **Drawing Revision** : N/A

Material Due Date : HLA

: 8/20/2007

1 Um:

Each

Written By

First Issue

Previous Run

Checked & Approved By

Comment

: Est Rev:A New Issue 07-04-05 JLM

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

DOCUMENT CONTROL

Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D412-664-205 CHG001

2.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

3.0

D412664245

CROSSTUBE ASSEMBLY, LOW NARROW AFT, 412C



Comment: Qty.:

1.0000 Each(s)/Unit

Total:

1.0000 Each(s)

Crosstube 412 Low

Batch:

4.0

Bolt



Comment: Qty.:

4.0000 Each(s)/Unit

Total:

4.0000 Each(s)

Bolt

Batch:

Bolt Batch:

5.0







2.0000 Each(s)/Unit

Total:

2.0000 Each(s)

Comment: Qty.:

Dart Aerospac	e	Ltd
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W/O:		WORK ORDER CH	IANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				

Part No:	PAR #: Fault Category:	NCR: Yes No DQA:	Date: <u>CF/07/03</u>
		QA: N/C Closed:	Date:

NCR:	CR: WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section E		Verification	Annroyal	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector

NOTE: Date & initial all entries

Date: Thursday, 5/3/2007 11:36:43 AM ·Kim Johnston User: **Process Sheet** Drawing Name: 412 X-TUBE INST, LOW NARROW AFT Customer: CU-DAR001 Dart Helicopters Services Job Number: 32188 Part Number: D412664205 Job Number: Description: Seq. #: Machine Or Operation: MS21042L6 Nut 6.0 Comment: Qty.: 6.0000 Each(s)/Unit Total: 6.0000 Each(s) Nut Batch: AN960JD616 7.0 Comment: Qty.: 18.0000 Each(s)/Unit Total: 18.0000 Each(s) Washer Batch: 8.0 QC4 Comment: INSPECT 100% KITS FOR COMPLETENESS PACKAGING 1 PACKAGING RESOURCE Comment: HAND FINISHING RESOURCE #1 Identify and pack for shipping as per PPP D412-664-105

10.0

QC21

FINAL INSPECTIONW/O RELEASE

01.07.16

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



u A-07-16

Dart Aerosp	ace	Ltd
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W /O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR: Ye	es No DC	A:	Date: _	
				Q.A	: N/C Close	ed:	_ Date: _	

NCR:	WORK ORDER NON-CONFORMANCE (CE (NCR)				
		Description of NC		Corrective Action Section	3	Verification	A = = = = = = = = = = = = = = = = = = =	A =======
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
	1							

NOTE: Date & initial all entries



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7	HECK	(ED	APPROVED ,//	DRAWING NO. REV. C
ı		#	At 1	D412-664-245 SHEET 1 OF 3
T	DATE			TITLE SCALE
L	07.0	3.29		CROSSTUBE ASS'Y (412 LOW-N AFT) NTS
	Α		06.12.01	NEW ISSUE
	В		07.03.01	CHG CUFF AREA, CHG RUBBER CUSHION
Γ	С		07.03.29	CHG RIVET AND RUBBER CUSHION

RELEASED

PARTS LIST:

Part Number	Description
D412-664-245	CROSSTUBE ASSEMBLY (412 LOW-NARROW AFT)
D6009-129	CROSSTUBE
D2856-600-1009	ABRASION STRIP
D2896-1	SUPPORT
D3189-1	CHAFING SHIELD
D3595-063-570	RUBBER CUSHION
D3606-1	CUFF
CR3212-4-07	RIVET (OR M7885/3-4-07)
MS21920-28	CLAMP
MS21920-30	CLAMP (OR MS21920-32)
MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)
SIKAFLEX-241/-291	SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT)
	D412-664-245 D6009-129 D2856-600-1009 D2896-1 D3189-1 D3595-063-570 D3606-1 CR3212-4-07 MS21920-28 MS21920-30 MAGNOBOND 6398

GENERAL NOTES:

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MATERIAL: MANUFACTURED FROM D6009-129

FINISHED LENGTH = 123.59±0.020 (BEFORE BENDING/TRIMMING)

- FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART 005 4.2
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH. 5)
- BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO 6) BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED.
- LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038. 7)
- SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS. 8)
- INSTALL D2856-600-1009 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 12) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECUREP COPY D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE RETURN TO
- 13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETING AND THAT NUT HAS NOT BOTTOMED OUT ATTER TO THE TOTAL THREADS SHOWING IN SAFETING THE TOTAL THREADS SHOWING IN SAFETING THREADS SHOWING THREAD SHOWING THREADS SHOWING THREAD SHOWING THREADS SHOWING TH
- 14) INSTALL D3606-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH A TO AMENDMENT LAYER OF SIKAFLEX-241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT BETWEEN NOTICE

 CUFF AND CROSSTUBE. SEAL EDGE OF CUFF TO ENSURE NO GAPS

 15) TOUCH-UP HOLES WITH CHEMICAL CONTENT TO ENSURE NO GAPS WORK ORDER

NO.

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